



Project No: AFC002001030202

Project: Supplemental RI

Client: AFCEE

Location: Site 24 - Vandenberg AFB

Northing(ft): 2099346.2

Borehole ID: HGL70(24MW19B)

Date: 10/13/2003

Geologist: M. Jackson

Checked By: D. Smith, R.G.

Ground Surface Elevation(ft msl): 460.4

Easting(ft): 5801076.8

SUBSURFACE PROFILE					SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)		
2		Gravel, sand, and silt	FL	457					
4		Poorly graded sand Moderate yellowish brown, dry, loose, medium grained	SP						
6		at 5' color change to dark yellowish brown, slightly moist, slightly dense			90	9/8/8	3.5		
8				452					
10		Sandy clay Dark yellowish gray, moist, slightly soft	CL						
12		Poorly graded sand Dark yellowish brown, slightly moist, medium grained, clayey sand lenses	SP						
14		at 13' color change to pale yellowish brown, slightly dense, some interbeds of clayey sand							
16					100	40/70	3.6		
18		at 15' color change to light olive gray, very moist							
20		at 20' pale olive, moist to saturated, dense, medium grained			100	37/50 for 5"	4.8		
22				437					
24		Clayey sand Mottled dark yellowish brown to pale olive, moist, slightly dense, medium grained, 80% sand/20% clay	SC						
26				433	100	40/70 for 2"	5.5		
28		Sandy clay Yellowish gray, moist, stiff, medium grained sand	CL						
30				430					
32		Silty Clay Mottled moderate yellowish brown to light brown, very stiff			100	40/70	2.2		
34									
36				424	90	14/20/31	3.5		
38		Poorly graded sand Grayish yellow green, slightly moist, slightly moist, slightly dense, medium grained	SP						
40				421					
			SW		100	39/44/15	1.2		

Set temporary well with (screen from 15' - 25').

Collect groundwater sample (HGL-70-GW25)

Drilled By: Layne Christensen

Drill Method: Dual Tube Percussion

Drilling Equipment: AP-1000

Sampling Equipment: 2" x 18" CA Mod Split Spoon

HydroGeoLogic, Inc.
4600 Northgate Blvd., Suite 207
Sacramento, CA 95834
(916) 614-8770 FAX (916) 614-8775

Boring Diameter: 10"

Total Depth Drilled: 75'

Sheet: 1 of 2



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SUBSURFACE PROFILE				SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	
42		Well graded sand with gravel Pale green, slightly moist, medium grained, gravel to cobble size	SW	416	100			Intermediate groundwater bearing zone not encountered.
44								
46		Clayey silt Grayish blue green, moist, moderately stiff	ML	412	100	14/25/40	4.8	
48								
50		Gravelly silty sand Grayish blue, slightly moist, 60% sand/25% gravel/15% silt, cobbles to 1.5% at 53' unit becomes moist	SW	402	100	49/70 for 4"	3.3	
52								
54								
56		at 55' unit becomes grayish green, moist, slightly dense, gravel to 1"			100	50/60 for 5"	3.5	
58		at 58' cobbles to 2.5"						
60								
62		Gravelly silt Grayish blue green, slightly moist, very stiff, cobbles to 1"			100	50/60 for 5"	3.6	
64								
66		Gravelly sand Grayish green, moist, coarse grained, pebbly, cobbly at 64' unit becomes very moist			0	70 for 5"	N/A	
68		at 68' unit becomes very moist to saturated						
70		at 70' increase in clay content to clayey gravelly sand, saturated, very dense, gravel to 0.5"	rock	387	100	31/70 for 4"	4.1	Set temporary well (screen 65 to 75 feet) Collect groundwater sample (HGL-70-GW75). Boring converted to deep well 24-MW-19B.
72								
74		Mudstone Olive gray to light olive gray, slightly moist, hard, bedrock, fissile						
76					100	30/70 for 5"	3.1	
78								
80								

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